

BATUHAN BERK BAŞOĞLU
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SUMMARY

Motivated Software Developer with a focus on Cybersecurity and Mining Technology. Skilled in web and application development, vulnerability testing, and delivering secure, scalable solutions. Proficient in a variety of programming languages and frameworks with expertise in solving complex technical and security challenges. Leverages deep knowledge of mining operations to drive innovation and develop solutions that enhance operational efficiency and security in the resource extraction industry.

Canadian Permanent Resident | Turkish Citizen (Eligible to work in Canada and Türkiye).

SKILLS

- Software Knowledge: Git, Python, Java, Android Studio, JavaScript, JQuery, Bootstrap, TypeScript, Node.js, Next.js, Angular, React, Vue.js, Visual Studio, Spring Framework, REST APIs, SOAP, C, C++, C#, .NET, ASP.NET, HTML, CSS, XML, SQL, MySQL, Microsoft SQL, IIS, Microsoft Azure, Oracle Cloud, AWS, Tortoise SVN, Docker, MATLAB, VHDL, ModelSim, AutoCAD, PHP, Kotlin, Xamarin, .NET MAUI, CMake, Shell Scripting, Quartus, Roff, WordPress, Go, Ruby, Gherkin, Maptek Vulcan, Whittle, Microsoft Office.
- Hardware Knowledge: Windows, Linux, Ubuntu, Fedora, Arch Linux, Android, iOS, Embedded Systems, FPGA, HCS12, Altera DE2, K-CSP, K-ECS.
- Ability to use Adobe programs: After Effects, Photoshop, and Premiere Pro.
- Excellent oral and written communication skills, scientific and critical mind, leadership, teamwork, cultural intelligence and time-management skills.
- Problem-solving, elaborating strategies, negotiating and working under pressure.
- Languages: English (Advanced), French (Advanced), Spanish (Intermediate) and Turkish (Advanced)

EXPERIENCE

TEACHING ASSISTANT & GRADER

McGill University, Montreal, Canada

01/2026 – Present

- Supporting MINE 290 course administration and student communication by drafting weekly scoop emails, maintaining course content and grades on myCourses, coordinating CO-OP reporting, managing departmental events on Eventbrite and keeping student resources and handbooks up to date.
- Maintaining clear grading notes for MINE 325/526 by reviewing submissions, recording grades and feedback and coordinating with the instructor to ensure consistent evaluation.

.NET DEVELOPER

Osmose, Montreal, Canada

12/2024 – 03/2025

- The Gamma project was documented and audited to identify bugs in accordance with client requirements. New features were proposed to meet client demands, and a clear integration pathway with Osmose systems was established. The solution is built on a robust technology stack that includes .NET, ASP.NET, C#, JavaScript, Xamarin, IIS, HTML, CSS, XML, SOAP, SQL, Microsoft SQL Server, GeoServer, Cerberus FTP and Tortoise SVN. Configuration files were updated, the source code was thoroughly investigated and documented, and system vulnerabilities were identified and remedied. Detailed investigations of GeoServer, Microsoft SQL Server, and Cerberus FTP were conducted. Collaboration with the IT lead, project manager, and data analyst ensured alignment across teams. The project served major clients Bell, Telus, Videotron and Hydro Quebec.

FULL STACK DEVELOPER

Inovestor, Montreal, Canada

07/2021 - 01/2024

- Resolved bugs and implemented new features for the RPM Eco Website under contract with RPM Eco using C#, .NET, ASP.NET, IIS, HTML, CSS, Typescript, Next.js, React, SQL, MySQL and Microsoft Azure. Created new pages in full-stack development, fixed bugs, and implemented new functionalities in the back-end, including repairing non-functional features and resolving user interface issues such as translation, alignment, and aesthetics in the front-end.
- Enhanced the VIA Rail website by fixing bugs and updating functionalities under a contract with IBM using C#, .NET, ASP.NET, IIS, HTML, CSS, JavaScript, Node.js, Angular and Microsoft Azure. Fixed user interface issues, including translation, alignment, and aesthetics, in the front-end. Additionally, improved back-end functionality by fixing non-functional methods, updating libraries, correcting CAPTCHA errors, and implementing new features, such as a stronger password policy.

WEB DEVELOPER

Kargı Building Complex, Bodrum, Türkiye

01/2021 - 04/2021

- Created an advertising website from scratch for the Kargi Building Complex using HTML, CSS, TypeScript, JavaScript, Node.js and Angular, receiving excellent feedback from the employer.

EDUCATION

MASTERS OF ENGINEERING, Mining Engineering 08/2025 - Present
McGill University, Mining and Materials Engineering, Montreal, Canada

- Combined mining engineering with computer engineering skills, focusing on integrating technology and innovation within the resource extraction industry.

GRADUATE CERTIFICATE, Cybersecurity

McGill University, Information Studies, Montreal, Canada

08/2024 - 10/2025

- McGill University offered hands-on training in cryptography, network security, OS hardening, and information security management. Through virtual labs and simulations, developed skills in threat assessment, incident response, and security policy design preparing for roles in cybersecurity analysis and defense.

BACHELOR OF APPLIED SCIENCE, Computer Engineering, *French Immersion Stream*

University of Ottawa, Faculty of Engineering, Ottawa, Canada

09/2017 - 06/2021

- Developed a solid foundation in programming, digital systems, hardware-software integration, and networking. Through focused electives, gained hands-on experience with embedded systems, real-time operating systems, software requirements analysis, and software architecture. This included skills in microcontroller programming, system-level design, real-time task management, and designing scalable, maintainable software preparing to build reliable and efficient technology solutions across various applications.
- Awarded the University of Ottawa Access to French Studies Scholarship for full-time.

VOLUNTEERING

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| • VP Activities at Mining and Materials Graduate Engineering Student Association of McGill | 10/2025 - Present |
| • Volunteer at Tech Events: NorthSec, McGill Tech Fair | 04/2025 - 09/2025 |
| • Equity Committee Representative at McGill Information Studies Student Association | 03/2025 - 09/2025 |
| • Volunteer at McGill Arts Collective | 01/2025 - 04/2025 |
| • Innovation Committee Member at The Post Graduate Students' Society | 09/2024 - 04/2025 |
| • Volunteer at Festivals: Montreal Salsa Convention, Montreal Highland Games, MUTEK | 05/2024 - 08/2024 |
| • Volunteer at University of Ottawa Model United Nations Associations | 09/2019 - 05/2020 |
| • Volunteer at Rotaract Club of Ottawa | 09/2018 - 05/2019 |

REALIZATION

- Awarded the University of Ottawa Admission Scholarship for Academic Excellence. 09/2017

INTERESTS

- Sports: Semi-professional golfing, equestrianism, latin & swing dancing, Scottish country dancing, fitness, muay thai, boxing, freestyle wrestling, brazilian jiu-jitsu, hiking and climbing.
- Art: stage acting, improvising.